

Joseph Kost

List of Publications by Year in descending order

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118
papers

7,752
citations

61984

43
h-index

53230

85
g-index

121
all docs

121
docs citations

121
times ranked

7021
citing authors

#	ARTICLE	IF	CITATIONS
1	Sonodynamic effect in A375 melanoma cells with chlorin e6 induced by 20 kHz ultrasound. Journal Physics D: Applied Physics, 2022, 55, 045402.	2.8	0
2	Quaternized Starch-Based Composite Nanoparticles for siRNA Delivery to Tumors. ACS Applied Nano Materials, 2021, 4, 2218-2229.	5.0	6
3	Bacteria-Mediated Synthesis of Silver and Silver Chloride Nanoparticles and Their Antimicrobial Activity. Applied Sciences (Switzerland), 2021, 11, 3134.	2.5	14
4	Tailor-Made Single-Core PLGA Microbubbles as Acoustic Cavitation Enhancers for Therapeutic Applications. ACS Applied Materials & Interfaces, 2021, 13, 25748-25758.	8.0	13
5	Cell stiffness predicts cancer cell sensitivity to ultrasound as a selective superficial cancer therapy. Bioengineering and Translational Medicine, 2021, 6, e10226.	7.1	8
6	Pectic Galactan Polysaccharide-Based Gene Delivery System for Targeting Neuroinflammation. Advanced Functional Materials, 2021, 31, 2100643.	14.9	4
7	Advances in Drug Delivery and Theranostics. Advanced Functional Materials, 2021, 31, 2108838.	14.9	6
8	Ultrashort Cell-Penetrating Peptides for Enhanced Sonophoresis-Mediated Transdermal Transport. ACS Applied Bio Materials, 2020, 3, 8395-8401.	4.6	5
9	SP-D loaded PLGA nanoparticles as drug delivery system for prevention and treatment of premature infant's lung diseases. International Journal of Pharmaceutics, 2020, 585, 119387.	5.2	19
10	Optical properties of chlorin e6 in living melanoma cells. , 2020, , .		1
11	Effects of Surface Coating on Nanoparticle-Protein Adsorption Selectivity. Regenerative Engineering and Translational Medicine, 2018, 4, 62-74.	2.9	2
12	Characterization and antimicrobial activity of silver nanoparticles, biosynthesized using Bacillus species. Applied Surface Science, 2018, 438, 66-73.	6.1	96
13	Ultrasound targeting of Q-starch/miR-197 complexes for topical treatment of psoriasis. Journal of Controlled Release, 2018, 284, 103-111.	9.9	28
14	Amplified CPEs enhancement of chorioamion membrane mass transport by encapsulation in nano-sized PLGA particles. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 117, 292-299.	4.3	7
15	Ultrasound Effect on Cancerous versus Non-Cancerous Cells. Ultrasound in Medicine and Biology, 2016, 42, 1560-1567.	1.5	11
16	Synthesis, characterization, and self-assembly with plasmid DNA of a quaternary ammonium derivative of pectic galactan and its fluorescent labeling for bioimaging applications. Carbohydrate Polymers, 2016, 150, 308-318.	10.2	20
17	The synergistic effect of ultrasound and chemical penetration enhancers on chorioamion mass transport. Journal of Controlled Release, 2015, 200, 35-41.	9.9	8
18	Keeping those telomeres short! an innovative intratumoral long-term drug delivery system. Journal of Cancer Research and Clinical Oncology, 2015, 141, 23-34.	2.5	4

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19	Fetal Membrane Transport Enhancement Using Ultrasound for Drug Delivery and Noninvasive Detection. <i>Pharmaceutical Research</i> , 2015, 32, 403-413.	3.5	3
20	Harvesting Low Molecular Weight Biomarkers Using Gold Nanoparticles. <i>ACS Nano</i> , 2015, 9, 5750-5759.	14.6	12
21	Polymeric carrier-mediated intracellular delivery of phosphatidylinositol-3,4,5-trisphosphate to overcome insulin resistance. <i>Journal of Drug Targeting</i> , 2015, 23, 698-709.	4.4	4
22	Blotting from PhastGel to Membranes by Ultrasound. <i>Methods in Molecular Biology</i> , 2015, 1312, 237-246.	0.9	1
23	Abstract B50: An innovative technique for preventing telomere elongation and its associated immortalization of cancer cells. , 2015, , .		0
24	Tailoring quaternized starch as a non-viral carrier for gene delivery applications. <i>Polymers for Advanced Technologies</i> , 2014, 25, 552-561.	3.2	16
25	Ultrasound-mediated transgene expression in endogenous stem cells recruited to bone injury sites. <i>Polymers for Advanced Technologies</i> , 2014, 25, 525-531.	3.2	8
26	A novel approach for noninvasive drug delivery and sensing through the amniotic sac. <i>Journal of Controlled Release</i> , 2014, 183, 105-113.	9.9	9
27	Ultrasound mediated transdermal drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2014, 72, 127-143.	13.7	202
28	A pilot study of endoluminal US for stool liquefaction. <i>Gastrointestinal Endoscopy</i> , 2014, 79, 508-513.	1.0	1
29	Quaternized starch-based carrier for siRNA delivery: From cellular uptake to gene silencing. <i>Journal of Controlled Release</i> , 2014, 185, 109-120.	9.9	50
30	Mo1565 Salvaging Poorly Prepared Colonoscopies Using Endoluminal Ultrasound: a Pilot Study. <i>Gastrointestinal Endoscopy</i> , 2013, 77, AB429-AB430.	1.0	0
31	Low-Frequency Ultrasound Effects on Intracellular Barriers in Nonviral Gene Delivery Processes. <i>Israel Journal of Chemistry</i> , 2013, 53, 829-838.	2.3	2
32	Hydrogels from Biopolymer Hybrid for Biomedical, Food, and Functional Food Applications. <i>Polymers</i> , 2012, 4, 997-1011.	4.5	78
33	Responsive polymeric delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 327-341.	13.7	234
34	Pyroelectric, piezoelectric and photoeffects in hydroxyapatite thin films on silicon. , 2011, , .		5
35	Pyroelectric, piezoelectric, and photoeffects in hydroxyapatite thin films on silicon. <i>Applied Physics Letters</i> , 2011, 98, 123703.	3.3	70
36	Poled PVDF-TrFE coatings on quartz microbalance sensors: A new technique for study of proteins in solution. , 2011, , .		0

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37	The importance of microjet vs shock wave formation in sonophoresis. Journal of Controlled Release, 2010, 148, 204-211.	9.9	69
38	Indirect Low-Intensity Ultrasonic Stimulation for Tissue Engineering. Journal of Tissue Engineering, 2010, 1, 973530.	5.5	9
39	Ultrasound triggered release of cisplatin from liposomes in murine tumors. Journal of Controlled Release, 2009, 137, 63-68.	9.9	274
40	Ultrasound, liposomes, and drug delivery: principles for using ultrasound to control the release of drugs from liposomes. Chemistry and Physics of Lipids, 2009, 162, 1-16.	3.2	398
41	Combined Ultrasonic and Enzymatic Debridement of Necrotic Eschars in an Animal Model. Journal of Burn Care and Research, 2009, 30, 505-513.	0.4	9
42	Blotting from PhastGel to Membranes by Ultrasound. Methods in Molecular Biology, 2009, 536, 173-179.	0.9	1
43	A Review: Controlled Release Systems for Agricultural and Food Applications. ACS Symposium Series, 2008, , 265-281.	0.5	16
44	Modified pectin-based carrier for gene delivery: Cellular barriers in gene delivery course. Journal of Controlled Release, 2008, 130, 183-191.	9.9	73
45	Smart polymers for responsive drug-delivery systems. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 755-767.	3.5	86
46	Ultrasound-Mediated Transdermal Drug Delivery. , 2008, , 339-347.		0
47	Drug Delivery Systems. , 2008, , .		0
48	Controlling Liposomal Drug Release with Low Frequency Ultrasound:Â Mechanism and Feasibility. Langmuir, 2007, 23, 4019-4025.	3.5	213
49	Bubble growth within the skin by rectified diffusion might play a significant role in sonophoresis. Journal of Controlled Release, 2007, 117, 246-255.	9.9	40
50	Switchable Assembly of Ultra Narrow CdS Nanowires and Nanorods. Journal of the American Chemical Society, 2006, 128, 9294-9295.	13.7	80
51	The nature of ultrasoundâ€™SLS synergism during enhanced transdermal transport. Journal of Controlled Release, 2005, 107, 484-494.	9.9	37
52	On-demand release by ultrasound from osmotically swollen hydrophobic matrices. Journal of Controlled Release, 2005, 110, 58-66.	9.9	31
53	Applications of injectable polymeric implants for protein and DNA delivery. Israel Journal of Chemistry, 2005, 45, 437-444.	2.3	1
54	Bioadhesive grafted starch copolymers as platforms for peroral drug delivery: a study of theophylline release. Journal of Controlled Release, 2004, 94, 391-399.	9.9	122

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55	Ultrasound and transdermal drug delivery. <i>Drug Discovery Today</i> , 2004, 9, 670-676.	6.4	174
56	Low-frequency sonophoresis. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 589-601.	13.7	349
57	Rapid Onset of Cutaneous Anesthesia with EMLA Cream After Pretreatment with a New Ultrasound-Emitting Device. <i>Anesthesia and Analgesia</i> , 2004, 98, 371-376.	2.2	73
58	pH-Responsive Hydrogels: Swelling Model. <i>Advances in Experimental Medicine and Biology</i> , 2004, 553, 29-43.	1.6	17
59	Modeling ionic hydrogels swelling: Characterization of the non-steady state. <i>Biotechnology and Bioengineering</i> , 2003, 84, 20-28.	3.3	31
60	Pectin-based systems for colon-specific drug delivery via oral route. <i>Biomaterials</i> , 2003, 24, 3333-3343.	11.4	469
61	Ultrasound-Assisted Insulin Delivery and Noninvasive Glucose Sensing. <i>Diabetes Technology and Therapeutics</i> , 2002, 4, 489-497.	4.4	44
62	Preparation and characterization of bioadhesive grafted starch copolymers as platforms for controlled drug delivery. <i>Journal of Applied Polymer Science</i> , 2002, 86, 1157-1162.	2.6	32
63	Dependence of low-frequency sonophoresis on ultrasound parameters; distance of the horn and intensity. <i>International Journal of Pharmaceutics</i> , 2002, 235, 35-42.	5.2	79
64	Enzymatically controlled responsive drug delivery systems. <i>Polymers for Advanced Technologies</i> , 2002, 13, 1006-1018.	3.2	31
65	Transdermal delivery of heparin and low-molecular weight heparin using low-frequency ultrasound. , 2001, 18, 1151-1156.		98
66	Responsive polymeric delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2001, 46, 125-148.	13.7	560
67	Characterization of a polymeric PLGA-injectable implant delivery system for the controlled release of proteins. , 2000, 50, 388-396.		137
68	Synergistic Effect of Low-Frequency Ultrasound and Sodium Lauryl Sulfate on Transdermal Transport. <i>Journal of Pharmaceutical Sciences</i> , 2000, 89, 892-900.	3.3	109
69	Characterization of glucose-sensitive insulin release systems in simulated in vivo conditions. <i>Biomaterials</i> , 2000, 21, 1679-1687.	11.4	242
70	Transdermal monitoring of glucose and other analytes using ultrasound. <i>Nature Medicine</i> , 2000, 6, 347-350.	30.7	237
71	Determination of threshold energy dose for ultrasound-induced transdermal drug transport. <i>Journal of Controlled Release</i> , 2000, 63, 41-52.	9.9	142
72	Low-Frequency Sonophoresis: A Noninvasive Method of Drug Delivery and Diagnostics. <i>Biotechnology Progress</i> , 2000, 16, 488-492.	2.6	114

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73	Transdermal extraction of analytes using low-frequency ultrasound. <i>Pharmaceutical Research</i> , 2000, 17, 466-470.	3.5	50
74	Delivery of soluble tumor necrosis factor receptor from in-situ forming PLGA implants: in-vivo. <i>Pharmaceutical Research</i> , 2000, 17, 1546-1550.	3.5	44
75	Combined effect of low-frequency ultrasound and iontophoresis: applications for transdermal heparin delivery. <i>Pharmaceutical Research</i> , 2000, 17, 1151-1154.	3.5	79
76	Analysis of ultrasonically extracted interstitial fluid as a predictor of blood glucose levels. <i>Journal of Applied Physiology</i> , 2000, 89, 961-966.	2.5	62
77	Characterization of a polymeric PLGA-injectable implant delivery system for the controlled release of proteins. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 50, 388.	3.1	1
78	Nano/ Microspheres from Natural Polymers. , 2000, , 203-240.		1
79	Calcium responsive bioerodible drug delivery system. <i>Pharmaceutical Research</i> , 1999, 16, 1483-1486.	3.5	19
80	Mass transport enhancement by ultrasound in non-degradable polymeric controlled release systems. <i>Journal of Controlled Release</i> , 1998, 54, 1-7.	9.9	75
81	Electrical properties of glucose-sensitive hydrogels: Swelling and conductivity relationships. , 1998, 41, 65-70.		11
82	In Vitro Analysis of Bromine Chemical Burns with Use of Full-Thickness Human Skin. <i>Journal of Burn Care and Research</i> , 1998, 19, 18-24.	1.6	13
83	Characterization of microencapsulated liposome systems for the controlled delivery of liposome-associated macromolecules. <i>Journal of Controlled Release</i> , 1997, 43, 35-45.	9.9	34
84	Influence of specially modulated ultrasound on the water desalination process with ion-exchange hollow fibers. <i>Desalination</i> , 1997, 109, 303-313.	8.2	20
85	LONG-TERM PROTECTION AGAINST THE EFFECTS OF TUMOUR NECROSIS FACTOR BY CONTROLLED DELIVERY OF THE SOLUBLE p55 TNF RECEPTOR. <i>Cytokine</i> , 1996, 8, 482-487.	3.2	23
86	Synergistic effect of electric field and ultrasound on transdermal transport. <i>Pharmaceutical Research</i> , 1996, 13, 633-638.	3.5	79
87	Quantitative model relating electrical resistance, strain, and time for carbon black loaded silicone rubber. <i>Polymer Engineering and Science</i> , 1994, 34, 1628-1634.	3.1	53
88	Enhanced Protein Blotting from PhastGel Media to Membranes by Irradiation of Low-Intensity Ultrasound. <i>Analytical Biochemistry</i> , 1994, 216, 27-32.	2.4	12
89	Ultrasound as a potential trigger to terminate the activity of contraceptive delivery implants. <i>Journal of Controlled Release</i> , 1994, 30, 77-81.	9.9	13
90	Ultrasonically enhanced transdermal drug delivery. Experimental approaches to elucidate the mechanism. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994, 5, 147-156.	3.5	21

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91	Glucose-sensitive polymeric matrices for controlled drug delivery. <i>Clinical Materials</i> , 1993, 13, 135-142.	0.5	46
92	Ultrasound for controlled delivery of therapeutics. <i>Clinical Materials</i> , 1993, 13, 155-161.	0.5	31
93	Ultrasound induced delivery of peptides. <i>Journal of Controlled Release</i> , 1993, 24, 247-255.	9.9	21
94	Ultrasound-Mediated Transdermal Drug Delivery. , 1993, , 91-104.		5
95	Structural characterization of starch networks in the solid state by cross-polarization magic-angle-spinning carbon-13 NMR spectroscopy and wide angle x-ray diffraction. <i>Macromolecules</i> , 1992, 25, 6756-6760.	4.8	26
96	An investigation of the effects of ultrasound on degradable polyanhydride matrices. <i>Macromolecules</i> , 1992, 25, 511-515.	4.8	35
97	Experimental approach to elucidate the mechanism of ultrasound-enhanced polymer erosion and release of incorporated substances. <i>Macromolecules</i> , 1992, 25, 123-128.	4.8	36
98	Responsive polymer systems for controlled delivery of therapeutics. <i>Trends in Biotechnology</i> , 1992, 10, 127-131.	9.3	73
99	Real Time Response Polymeric Delivery Systems. <i>Annals of the New York Academy of Sciences</i> , 1991, 618, 330-334.	3.8	3
100	Chemically-modified polysaccharides for enzymatically-controlled oral drug delivery. <i>Biomaterials</i> , 1990, 11, 695-698.	11.4	49
101	Mechanistic studies of macromolecular drug release from macroporous polymers. I. Experiments and preliminary theory concerning completeness of drug release. <i>Journal of Controlled Release</i> , 1989, 8, 223-236.	9.9	75
102	Ultrasound-enhanced polymer degradation and release of incorporated substances.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 7663-7666.	7.1	308
103	Effect of ultrasound on transdermal drug delivery to rats and guinea pigs.. <i>Journal of Clinical Investigation</i> , 1989, 83, 2074-2078.	8.2	141
104	Ultrasonically controlled polymeric drug delivery. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1988, 19, 275-285.	0.6	29
105	Magnetically enhanced insulin release in diabetic rats. <i>Journal of Biomedical Materials Research Part B</i> , 1987, 21, 1367-1373.	3.1	148
106	Polyanhydrides for controlled release of bioactive agents. <i>Biomaterials</i> , 1986, 7, 364-371.	11.4	111
107	Ultrasonic Modulated Drug Delivery Systems. , 1986, , 387-396.		6
108	Regulation of drug release from polymer matrices by oscillating magnetic fields. <i>Journal of Biomedical Materials Research Part B</i> , 1985, 19, 67-83.	3.1	151

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109	Magnetically controlled release systems: Effect of polymer composition. Journal of Biomedical Materials Research Part B, 1985, 19, 935-940.	3.1	56
110	Glucose-sensitive membranes containing glucose oxidase: Activity, swelling, and permeability studies. Journal of Biomedical Materials Research Part B, 1985, 19, 1117-1133.	3.1	202
111	Controlled Release and Magnetically Modulated Systems for Macromolecular Drugs. Annals of the New York Academy of Sciences, 1985, 446, 1-13.	3.8	22
112	Controlled release of bioactive agents. Trends in Biotechnology, 1984, 2, 47-51.	9.3	14
113	Resistivity behavior of carbon-black-filled silicone rubber in cyclic loading experiments. Journal of Applied Polymer Science, 1984, 29, 3937-3946.	2.6	69
114	Swelling Behavior of Glucose Sensitive Membranes. , 1984, , 193-207.		15
115	A Bioresponsive Membrane for Insulin Delivery. , 1984, , 209-220.		28
116	Effects of axial stretching on the resistivity of carbon black filled silicone rubber. Polymer Engineering and Science, 1983, 23, 567-571.	3.1	52
117	Mechanism of Low Profile Behavior in Unsaturated Polyester Systems. International Journal of Polymeric Materials and Polymeric Biomaterials, 1978, 6, 217-231.	3.4	20
118	Reuse of plastics from solid wastes. Polymer Engineering and Science, 1977, 17, 274-278.	3.1	20